	Docket No. BREV 13186 Amendment B	
A3	Such plots are shown in Figures 2 and 3	
	Please replace the paragraph beginning on page 16, line 1, with the following rewritten	
	paragraph:	<u></u>
A4	On the other hand, curves 8, 9, 10 and 12 reveal diffraction peaks 13 characteristic of	
	crystalline materials	
	Please replace the paragraph beginning on page 16, line 12, with the following rewritten	
	paragraph:	
AS	A first embodiment example relates to the production of a mirror 4 at 1064 nm. The	
	mirror 4 must ensure a reflecting function at 1064 nm under an angle of incidence of 45°. This	
	mirror 4 is produced by a stack of formula 12 (HB) H2B where H represents a mono-layer of	
	thickness 156 nm of HfO <sub>2</sub> and B a mono-layer of 213 nm of SiO <sub>2</sub>	
:	Please replace the paragraph beginning on page 16, line 19, with the following rewritten	
	paragraph:	
A6	A cross-section of this optical component mirror 4 intended to represent the stacking of	
	the layers is shown in Figure 4. On a substrate 1, the mirror according to the invention	
	comprises first of all a stack of twelve layers H of amorphous hafnium oxide 2, each alternating	
	with a layer B of silicon oxide 3. It then comprises two layers H of amorphous hafnium oxide 2	
	and finally a layer B of silicon oxide 3	
	Please replace the paragraph beginning on page 18, line 15, with the following rewritten	
HAYES SOLOWAY P.C.	paragraph:	
130 W. CUSHING ST. TUCSON, AZ 85701	In Figure 6, the optical component 6 is shown, with the aim of simplification, with a	
TEL. 529.882.7623 FAX. 520.882.7643	single example of the two-layer composition comprising a layer of amorphous hafnia 2	
175 CANAL STREET MANCHESTER, NH 03101	alternating with a layer of silicon oxide 3	
FAX. 603.668.8567		

## **ABSTRACT**



--A thin layer of hafnium oxide or stacking of thin layers comprising hafnium oxide layers for producing surface treatments of optical components, or optical components, in which at least one layer of hafnium oxide is in amorphous form and has a density less than 8 gm/cm<sup>3</sup>. The layer is formed by depositing on a substrate without energy input to the substrate.--

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